



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,848	09/20/2005	Sang-Soo Kim	AB-1410 US	9371
33605 7590 12/16/2008 MACPHERSON KWOK CHEN & HEID LLP 2033 GATEWAY PLACE SUITE 400 SAN JOSE, CA 95110				
EXAMINER				
WEISS, HOWARD				
ART UNIT		PAPER NUMBER		
2814				
MAIL DATE		DELIVERY MODE		
12/16/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/522,848

Applicant(s)

KIM ET AL.

Examiner

Howard Weiss

Art Unit

2814

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 September 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2 and 5-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2 and 5-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-8508)
Paper No(s)/Mail Date 7/21/2008
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

Attorney's Docket Number: AB-1410 US

Filing Date: 9/20/2005

Continuing Data: #&! of PCT/KR02/01763 (9/18/2002)

Claimed Foreign Priority Date: 8/1/2002 (KRX)

Applicant(s): Kim et al. (Kim)

Examiner: Howard Weiss

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2 and 5 to 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park et al. (KR 10 2001-0050708A) and Kim et al. (JP 2001-005038).

Park et al. show most aspects of the instant invention (e.g. Figures 7 and 8) including:

- an insulating substrate **10**
- a gate wire including gate lines **24**, gate electrodes and gate pads **25** said gate lines being the second signal line having a first portion going in a transverse direction and a portion going in a longitudinal direction
- a storage electrode wire including storage electrode lines **23** and electrodes **26**
- a gate insulating layer **30** and a semiconductor layer **40** on said gate insulating layer
- a data wire including data lines **62**, source **64** and drain **65** electrodes and data pads **64**
- a passivation layer **72** formed on said data wire and pixel electrodes **82** formed on said passivation layer

- storage electrode connections with a first group of storage electrode lines **26, 28** parallel to the gate lines and a second group of storage electrode line **84** perpendicular to said gate lines, connecting said storage electrode lines and electrodes and facing across the gate lines provided on the pixel area
- the storage wire is formed simultaneously with the gate wire (Figure 4a)
- separate, common bars **65** connecting the ends of the storage electrode lines

Park et al. do not show a plurality of color filters disposed between the data wire and the passivation layer and the common bar having a width less than or equal to 150 microns. Kim et al. teach (e.g. Figures 32 and 33) to form a plurality of color filters **75,77** between data wires **60,62** and a passivation layer **90** to reduce the number of masks in production (see Solution). It would have been obvious to a person of ordinary skill in the art at the time of invention to form a plurality of color filters between data wires and a passivation layer as taught by Kim et al. in the device of Park et al. to reduce the number of masks in production.

Since the Applicant has not established the criticality of the widths stated and since these widths are in common use in similar devices in the art, it would have been obvious to one of ordinary skill in the art to use these values in the device of Park et al. and Kim et al. Where patentability is said to be based upon particular chosen dimensions or upon another variable recited in a claim, the applicant must show that the chosen dimensions are critical. *In re Woodruff*, 919 F.2d 1575, 1578, 16 USPQ2d 1934, 1936 (Fed. Cir. 1990).

Response to Arguments

3. Applicant's arguments with respect to Claims 1, 2 and 5 to 16 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Papers related to this application may be submitted directly to Art Unit 2814 by facsimile transmission. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (15 November 1989). The Art Unit 2814 Fax Center number is **(571) 273-8300**. The Art Unit 2814 Fax Center is to be used only for papers related to Art Unit 2814 applications.
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard Weiss at **(571) 272-1720** and between the hours of 7:00 AM to 3:00 PM (Eastern Standard Time) Monday through Friday or by e-mail via Howard.Weiss@uspto.gov. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy, can be reached on **(571) 272-1705**.
6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at **866-217-9197** (toll-free).

Art Unit: 2814

7. The following list is the Examiner's field of search for the present Office Action:

Field of Search	Date
U.S. Class / Subclass(es): 257/ 59, E21.703	Thru 12/10/2008
Other Documentation: none	
Electronic Database(s): EAST	Thru 12/10/2008

HW/hw
15 December 2008/Howard Weiss/
Primary Examiner
Art Unit 2814